

1           1.     In a computer network including a server computer system network  
2 connectable to at least a plurality of client computer systems for which the server computer  
3 system maintains presence information, a method of exercising fine grain control of access  
4 to the presence information using a plurality of access permission types used for accessing  
5 the presence information, the method comprising the following:

6                     an act of the server computer system receiving a request from a client  
7 computer system including an instruction to change an access permission status for  
8 at least a subset of the plurality of client computer systems, the access permission  
9 corresponding to one of the plurality of access permission types to the presence  
10 information;

11                    an act of the server computer system setting at least an entry in a data field  
12 in response to the request, the entry representing the changed access permission  
13 status; and

14                    an act of the server computer system determining whether or not to allow  
15 access to the presence information based on the entry in the data field.

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17           2.     The method in accordance with Claim 1, wherein the instruction to change  
18 an access permission comprises an instruction affecting permission to view accurate  
19 presence information.

20  
21           3.     The method in accordance with Claim 1, wherein the instruction to change  
22 an access permission comprises an instruction affecting permission to view any presence  
23 information.

1           4.     The method in accordance with Claim 1, wherein the instruction to change  
2 an access permission comprises an instruction to restrict the ability to act on presence  
3 information.

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5           5.     The method in accordance with Claim 4, wherein the instruction to restrict  
6 the ability to act on presence information comprises an instruction to prohibit sending  
7 messages to a computer system that corresponds to the presence information.

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9           6.     The method in accordance with Claim 1, wherein the data field comprises  
10 access permission fields in a database, wherein the database comprises the following for  
11 each of the plurality of client computer systems:

12                   an identifier field that identifies the client computer system;

13                   a presence information field that represents the actual availability of the  
14 client computer system;

15                   a first access permission field that contains an access permission of a first  
16 access permission type when the client computer system requests access to the  
17 presence information;

18                   a second access permission field that contains an access permission of a  
19 second access permission type when the client computer system requests access to  
20 the presence information; and

21                   a manufactured presence information field to display to the client computer  
22 system if the client computer system has permission to view presence information,  
23 but does not have permission to view accurate presence information.

24

7. A computer-readable medium having computer-executable instructions for performing the acts recited in Claim 1.

A PROFESSIONAL CORPORATION  
ATTORNEYS AT LAW  
1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111

1           8.     In a computer network including a server computer system network  
2 connectable to at least a plurality of client computer systems for which the server computer  
3 system maintains presence information, a method of exercising fine grain control of access  
4 to the presence information using a plurality of access permission types used for accessing  
5 the presence information, the method comprising the following:

6                 an act of the server computer system receiving a request from a client  
7 computer system including an instruction to change an access permission status for  
8 at least a subset of the plurality of client computer systems, the access permission  
9 corresponding to one of the plurality of access permission types to the presence  
10 information; and

11                a step for the server computer system determining whether or not to allow  
12 access to the presence information based on the instruction.

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14           9.     The method in accordance with Claim 8, wherein the step for the server  
15 computer system determining whether or not to allow access to the presence information  
16 based on the instruction comprises the following:

17                 an act of the server computer system setting at least an entry in a data field  
18 in response to the request, the entry representing the changed access permission  
19 status; and

20                 an act of the server computer system determining whether or not to allow  
21 access to the presence information based on the entry in the data field.

1           10.    The method in accordance with Claim 8, wherein the instruction to change  
2 an access permission comprises an instruction affecting permission to view accurate  
3 presence information.

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5           11.    The method in accordance with Claim 8, wherein the instruction to change  
6 an access permission comprises an instruction affecting permission to view any presence  
7 information.

8  
9           12.    The method in accordance with Claim 8, wherein the instruction to change  
10 an access permission comprises an instruction to restrict the ability to act on presence  
11 information.

12  
13           13.    The method in accordance with Claim 12, wherein the instruction to restrict  
14 the ability to act on presence information comprises an instruction to prohibit sending  
15 messages to a computer system that corresponds to the presence information.

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17           14.    A computer-readable medium having computer-executable instructions for  
18 performing the act and step recited in Claim 8.

1           15. In a computer network including a server computer system network  
2 connectable to at least a plurality of client computer systems for which the server computer  
3 system maintains presence information, a method of exercising fine grain control of access  
4 to the presence information using a plurality of access permission types used for accessing  
5 the presence information, the method comprising the following:

6           an act of a client computer system creating a request including an  
7 instruction to change an access permission status for at least a subset of the  
8 plurality of computer systems, the access permission corresponding to one of the  
9 plurality of access permission types to the presence information; and

10           an act of a client computer system transmitting the request to the server  
11 computer system.  
12

13           16. The method in accordance with Claim 15, wherein the instruction to change  
14 an access permission comprises an instruction affecting permission to view accurate  
15 presence information.  
16

17           17. The method in accordance with Claim 15, wherein the instruction to change  
18 an access permission comprises an instruction affecting permission to view any presence  
19 information.  
20

21           18. The method in accordance with Claim 15, wherein the instruction to change  
22 an access permission comprises an instruction to restrict the ability to act on presence  
23 information.  
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1           19.    The method in accordance with Claim 18, wherein the instruction to restrict  
2 the ability to act on presence information comprises an instruction to prohibit sending  
3 messages to a computer system that corresponds to the presence information.  
4

5           20.    The method in accordance with Claim 15, wherein the request comprises a  
6 data structure stored in a computer-readable medium, wherein the data structure comprises:

7                   a principle identifier field that identifies the client computer system to  
8 which the access permission status is to apply;

9                   a grant field that identifies any permission types that are to be granted to  
10 the client computer system; and

11                   a deny field that identifies any permission types that are to be denied to the  
12 client computer system.  
13

14           21.    The method in accordance with Claim 20, wherein the data structure further  
15 comprises:

16                   an authentication field identifying authentication methods that are to be  
17 used when authenticating the client computer system to the server computer  
18 system.  
19

20           22.    A computer-readable medium having computer-executable instructions for  
21 performing the acts recites in Claim 15.  
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1           23.    A computer-readable medium having stored thereon a data structure having  
2 a plurality of fields, the data structure comprising:

3                   a principle identifier field that identifies a client computer system to which  
4 access control is to apply when accessing presence information;

5                   a grant field that identifies any permission types that are to be granted to  
6 the client computer system when the client computer requests access to the  
7 presence information; and

8                   a deny field that identifies any permission types that are to be denied to the  
9 client computer system when the client computer requests access to the presence  
10 information.

11  
12           24.    The computer-readable medium in accordance with Claim 23, wherein the  
13 data structure further comprises:

14                   an authentication field identifying authentication methods that are to be  
15 used when authenticating the client computer system to a server computer system  
16 that maintains the presence information.